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APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/085,021 03/01/2002		Conrad Henkens	HENKENS=1	8793		
1444	7590	02/05/2004		EXAMINER		
BROWDY 624 NINTH		EIMARK, P.L.L.C.	GOFF II, JOHN L			
SUITE 300	orkeer,	1, ,,		ART UNIT	PAPER NUMBER	
	ON DC	20001-5303	1733			

DATE MAILED: 02/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

				1	MK			
		App	lication No.	Applicant(s)				
Offic Action Summary		10/0	085,021	HENKENS ET AL.				
		Exar	nin r	Art Unit				
			L. Goff	1733				
Period fo	The MAILING DATE of this commun or Reply	ication app ars c	on the cov r sheet with the	correspondence addr	9SS			
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comr period for reply specified above is less than thirty (3 period for reply is specified above, the maximum st re to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In nunication. iii) days, a reply within t atutory period will apply will, by statute, cause t	no event, however, may a reply be the statutory minimum of thirty (30) do and will expire SIX (6) MONTHS fro the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this comi IED (35 U.S.C. § 133).	nunication.			
1)🖂	Responsive to communication(s) file	ed on <u>01 March 2</u>	<u>2002</u> .					
2a) <u></u> ☐	This action is FINAL .	2b)⊠ This action	is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	•						
5)□ 6)⊠ 7)□	Claim(s) <u>1-9</u> is/are pending in the application of the above claim(s) <u>7-9</u> is/are Claim(s) is/are allowed. Claim(s) <u>1-6</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	withdrawn from c						
	on Papers							
10)⊠	The specification is objected to by the The drawing(s) filed on <u>01 March 20</u> Applicant may not request that any objected to Replacement drawing sheet(s) including the oath or declaration is objected to	02 is/are: a)⊠ a ction to the drawing the correction is r	g(s) be held in abeyance. S required if the drawing(s) is c	ee 37 CFR 1.85(a). bjected to. See 37 CFR	` '			
Priority u	ınder 35 U.S.C. §§ 119 and 120		·					
a)[13)□ A si 3 a 14)□ A	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation See the attached detailed Office action acknowledgment is made of a claim of the foreign land acknowledgment is made of a claim of the foreign land acknowledgment is made of a claim of the foreign land acknowledgment is made of a claim of the foreign land acknowledgment is made of a claim of the foreign land acknowledgment is made of a claim of the foreign land acknowledgment is made of a claim of the foreign land acknowledgment is made of a claim of the foreign land acknowledgment is made of a claim of the foreign land.	documents have documents have of the priority do anal Bureau (PC) on for a list of the for domestic priorid in the first sent or domestic priorior domestic priorior domestic priorioric domestic priorioric domestic priori	e been received. e been received in Applica cuments have been receiv f Rule 17.2(a)). certified copies not receiv rity under 35 U.S.C. § 119 tence of the specification al application has been re- rity under 35 U.S.C. §§ 12	etion No ved in this National Stored. (e) (to a provisional a por in an Application Deceived. (o and/or 121 since a	pplication) ata Sheet. specific			
Attachmen			 .					
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO-1449) F			ry (PTO-413) Paper No(s). Patent Application (PTO-1				

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-6, drawn to a process for producing a multi-layer film, classified in class 156, subclass 243.

- II. Claims 7-9, drawn to a multi-layer film, classified in class 428, subclass 458.
- 2. The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by a materially different process such as by co-extrusion or extrusion molding techniques. Alternatively, the laminating agent could have been applied as a film rather than as a solution.

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

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During a telephone conversation with Sheridan Neimark on January 10, 2003 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-6. Affirmation of this election must be made by applicant in replying to this Office action. Claims 7-9 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 8. Claim 2 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 2 requires "the laminating agent comprises non-migrating trigger chemicals". It is unclear what is required by a "trigger chemical". The specification does not disclose any particular "trigger chemicals" nor does the specification disclose what is generally required by a "trigger

chemical" (See page 3, lines 1-4 for the only disclosure of "trigger chemicals"). Applicant is asked to clarify what is required by a "trigger chemical". It is noted the examiner has interpreted the phrase "the laminating agent comprises non-migrating trigger chemicals" to require a resin formed of non-migrating materials such as plastic of the type used in the multi-layer copolymerized with other chemicals (e.g. carboxylic acids the addition of which trigger a reaction with the plastic to form non-migrating adhesives).

- 9. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 10. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 11. Claim 1 recites the limitation "the first film" in line 5. There is insufficient antecedent basis for this limitation in the claim. It is suggested to delete "the" and insert therein - a -.
- 12. Claim 1 recites the limitation "the second film" in line 7. There is insufficient antecedent basis for this limitation in the claim. It is suggested to delete "the" and insert therein - a -.
- Claim 2 requires "the laminating agent comprises non-migrating trigger chemicals". It is unclear what applicant considers a "trigger chemical". The specification does not disclose any particular "trigger chemicals" nor does the specification disclose what is generally required by a "trigger chemical" (See page 3, lines 1-4 for the only disclosure of "trigger chemicals").

 Applicant is asked to clarify what is required by a "trigger chemical". The examiners interpretation of the phrase is noted above in paragraph 8.

- 14. Claim 3 recites the limitation "the carrier film" in line 2. There is insufficient antecedent basis for this limitation in the claim. The examiner has interpreted the carrier film to be the first film as suggested by the specification (Page 3, lines 6-9). It is suggested to delete "carrier" and insert therein - first -
- 15. Claim 4 recites the limitation "the further, thermoplastic layer" in line 2. There is insufficient antecedent basis for this limitation in the claim. It is suggested to delete "the further, thermoplastic layer is composed of polyamide of polyester" and insert therein - the further layer is thermoplastic and is composed of polyamide of polyester -.

Claim Rejections - 35 USC § 102

16. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 17. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Ohtsuki et al. (U.S. Patent 4,407,689).

Ohtsuki et al. disclose a process for producing a multi-layer film used in food packaging.

Ohtsuki et al. teach the process comprises providing a continuous roll of aluminum foil,

providing a continuous roll of thermoplastic resin film (e.g. formed of polyolefins such as

ethylene, propylene, etc.), applying a solution of polyolefin adhesive dissolved or dispersed in an

organic solvent (the adhesive is formed by co-polymerizing an olefinic monomer, e.g. ethylene

or propylene, with one or more ethylenically unsaturated carboxylic acids) to one of the

aluminum foil or thermoplastic resin film, applying heat to the solution of polyolefin adhesive to vaporize the solvent, contacting the aluminum foil and thermoplastic resin film, and laminating the aluminum foil to the thermoplastic resin film through the polyolefin adhesive at a temperature of 110-160 °C and a pressure of 25-39 N/cm (Column 2, lines 60-64 and 66-68 and Column 3, lines 1-4, 27-32, and 49-54 and Column 4, lines 66-68 and Column 5, lines 1-3 and 8-18 and Column 6, lines 4-10 and 21-22 and in particular Example 4). Ohtsuki et al. further teach the surface of the aluminum foil not laminated with the thermoplastic resin film may be laminated to a thermoplastic such as polyamide or polyester to increase the mechanical strength of the foil such that the final food packaging laminate has the following structure: polyester (or polyamide) layer/aluminum foil/polyolefin adhesive layer/polyolefin film (Column 2, lines 60-64 and 66-68 and Column 3, lines 1-4).

Claim Rejections - 35 USC § 103

- 18. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 19. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

20. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Coran et al. (GB 2071110) and further in view of Ohtsuki et al.

Coran et al. disclose a process for producing a multi-layer film. Coran et al. teach the process comprises providing an aluminum foil, providing a polymeric film (e.g. formed of polyolefins such as ethylene, propylene, etc.), applying a solution of polyolefin adhesive dissolved in a solvent (the adhesive is formed by co-polymerizing an olefin, e.g. ethylene or propylene, with maleamic acid in the presence of a radical generator) to one of the aluminum foil or polymeric film, applying heat to the solution of polyolefin adhesive to vaporize the solvent, contacting the aluminum foil and polymeric film, and laminating the aluminum foil to the polymeric film through the polyolefin adhesive under elevated temperature and pressure (Page 1, lines 39-40, 53-54, and 58 and Page 2, lines 50-51 and 64-65 and Page 3, lines 12-13 and 17). Coran et al. are silent as to any specific uses for the multi-layer film such that it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the multilayer film taught by Coran et al. in any well known and conventional manner such as in food packaging as it was well known in the art to use multi-layer films of the type taught by Coran et al. in food packaging as shown for example by Ohtsuki et al. (Ohtsuki et al. is described above in paragraph 17) as only the expected results would be achieved.

Regarding claims 3 and 4, Coran et al. are silent as to laminating an additional film to the free surface (i.e. the surface that is not laminated with the polymeric film) of the aluminum foil. However, it would have been obvious to one of ordinary skill in the art at the time the invention

was made to modify the free surface of the aluminum foil taught by Coran et al. to include an additional thermoplastic layer, such as polyamide or polyester, laminated thereto to provide the aluminum foil with increased mechanical strength as was well known in the art as shown for example by Ohtsuki et al.

Regarding claims 5 and 6, Coran et al. are silent as to the particular laminating conditions such as temperature and pressure. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to determine/optimize the laminating conditions as a function of the quality, amount, etc. of multi-layer film produced as doing so would have required nothing more than ordinary skill and routine experimentation. Further, it would have been obvious to one of ordinary skill in the art to use laminating pressure and temperatures within the claimed ranges as the materials used in Coran et al. are similar/analogous to those used in Ohtsuki et al. such that only the expected results would be achieved.

Conclusion

21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John L. Goff whose telephone number is (571) 272-1216. The examiner can normally be reached on M-F (7:15 AM - 3:45 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

John L. Goff January 27, 2004 **GROUP 1300**